

ABSTRACT OF THE DISCLOSURE

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2 An ink-jet printhead is provided. The ink-jet printhead includes: a substrate, on the rear
3 surface of which a channel having a bottom is formed with a predetermined depth, wherein a
4 plurality of ink feed holes are formed on the bottom of the channel; a nozzle plate which is coupled
5 to a front surface of the substrate and on which a plurality of chamber-orifice complex holes are
6 formed, wherein each chamber-orifice complex hole corresponds to one or more ink feed holes
7 among the plurality of ink feed holes; and a plurality of heaters which is formed on the front surface
8 of the substrate corresponding to the chamber-orifice complex holes, respectively. Accordingly, the
9 ink-jet printhead can effectively increase ink ejection pressure by effectively suppressing a back flow
10 of ink, while providing for a high resolution image by making the volume of a droplet uniform or
11 very small. Further, the ink feed hole is provided for each chamber-orifice complex hole, thereby
12 preventing degradation in the physical strength of the substrate. In particular, the structure of a
13 channel for supplying ink is significantly simplified.